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FACSIMILE COVER SHEET

DATE: September 16, 2004
FILE NO: THOR/0011
TO: Examiner Otilia Gabor
FAX NO: 571-273-2435
COMPANY: USPTO
FROM: Walter C. Grollitsch *WCG*
PAGE(S) with cover: 91
ORIGINAL TO FOLLOW? ☐ YES ☒ NO

*Enter
references
OG
09-19-04*

U.S. SERIAL NO.: 10/071,589
CONFIRMATION NO.: 2703
FILING DATE: February 8, 2002
TITLE: IMPROVEMENTS TO FIRE DETECTION SENSORS
INVENTOR: Christopher Carter
EXAMINER: Otilia Gabor
GROUP ART UNIT: 2878

Per our telephone conversation this morning, please find attached the IDS filed on February 8, 2002 and the foreign references. If you have any questions, please contact me at your convenience.

Thanks.

CONFIDENTIALITY NOTE

The document accompanying this facsimile transmission contains information from the law firm of Moser, Patterson & Sheridan, L.L.P. which is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you.

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PATENT
Att. Dkt. THOR/0011

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Christopher F. Carter

Serial No.: To Be Assigned

Confirmation No.:

Filed: Herewith

For: Improvements to Fire
Detection Sensors

Group Art Unit: Unknown

Examiner: Unknown

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

CERTIFICATE UNDER 37 CFR 1.10

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited on the date below with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. EV 041 917 287 US addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C., 20231.

8 Feb 2002
Date

William B. Hester
Signature

INFORMATION DISCLOSURE STATEMENT

The Applicant, and the Attorney who signs below on the basis of the information supplied by the inventor and the Information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

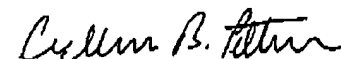
In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicant does not believe a fee is necessary, but if the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/THOR/0011/WBP.

Respectfully submitted,

Date: 8 Feb. 2002



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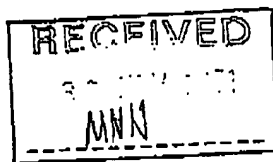


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The Patent Office
Patents Directorate

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Minicom: 08459 222250
DX 722540/41 Cleppa Park 3
<http://www.patent.gov.uk>

Your Reference: MNH
Application No: GB 0103632.6

27 November 2001

Dear Sirs

Patents Act 1977:
Combined Search and Examination Report under Sections 17 and 18(3)

Latest date for reply: 28 May 2002

I enclose two copies of my search and examination report and a copy of the citations.

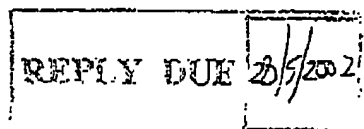
By the above date you should either file amendments to meet the objections in the report or make observations on them. If you do not, the application may be refused.

Preliminary report

You are reminded that your application does not meet with the requirements of the Patent rules in that the new drawings and an abstract need to be filed, as explained in the official letter of 1 March 2001.

Publication

I estimate that, provided you have met all formal requirements, preparations for publication of your application will be completed soon after 27 December 2001. You will then receive a letter informing you of completion and telling you the publication number and date of publication.



Use of E-mail: Please note that e-mail should be used for correspondence only.

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Application No: GB 0103632.6

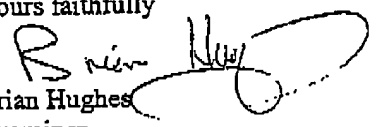
Page 2

27 November 2001

Amendment/withdrawal

If you wish to file amended claims for inclusion with the published application, or to withdraw the application to prevent publication, you must do so before the preparations for publication are completed. **No reminder will be issued.** If you write to the Office less than 3 weeks before the above completion date, please mark your letter prominently: **"URGENT - PUBLICATION IMMINENT"**.

Yours faithfully


Brian Hughes
Examiner**Important information about combined search and examination**

I also ask that you take note of the following points. These might have a bearing on the future stages of your application because the examination report has been sent to you before your application has been published.

- (a) You may file voluntary amendments before making a full response to my examination report. We will publish with your application any new or amended claims you file voluntarily or as a full response, provided that they are received before preparations for publication are completed. It would help us when you file amendments before publication if you could prominently indicate in a covering letter whether or not the amendments are intended as a full response to the examination report.
- (b) If you file a full response to the examination report before your application is published I will consider it as soon as possible. However, if this would disrupt the publication of your application, I would have to delay taking any action until the application had been published. This delay could be up to 3 months, depending upon when we receive your response.
- (c) There is another situation when there might be a delay between you filing a full response and the Patent Office responding to it. This would arise if you met all my objections but your application had not or had only recently been published. I could not report the outcome of my re-examination until I was satisfied that the search was complete for documents published before the priority date of your invention and that anybody interested in the application has had three months following publication of the application to make observations on the patentability of your invention.
- (d) Provided that the requirements of the Act have been met, I can send your application to grant as early as three months after publication. Before doing so I will bring the original search up to date and raise with you any further objection that might result from this top-up search. However, there is a possibility that at that time I may not have access to all the patent applications published after the priority date of your invention and of possible relevance to your application. If this is the case I would have to complete the search after grant and if necessary raise any new found novelty objection then.



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Application No: GB 0103632.6

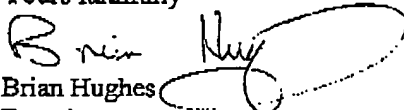
Page 2

27 November 2001

Amendment/withdrawal

If you wish to file amended claims for inclusion with the published application, or to withdraw the application to prevent publication, you must do so before the preparations for publication are completed. No reminder will be issued. If you write to the Office less than 3 weeks before the above completion date, please mark your letter prominently: "URGENT - PUBLICATION IMMINENT".

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- (c) There is another situation when there might be a delay between you filing a full response and the Patent Office responding to it. This would arise if you met all my objections but your application had not or had only recently been published. I could not report the outcome of my re-examination until I was satisfied that the search was complete for documents published before the priority date of your invention and that anybody interested in the application has had three months following publication of the application to make observations on the patentability of your invention.
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Application No: GB 0103632.6
 Claims searched: 1 to 19

Examiner: Brian Hughes
 Date of search: 27 November 2001

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): GIA AMF, AAJX

Int CI (Ed.7): G08B17/12

Other: Online: EPODOC, WPI, JAPIO

Documents considered to be relevant:

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|--------------------|
| A | GB 2360355 A (DETECTOR ELECTRONICS CORPORATION) | |
| A | GB 2320959 A (DETECTOR ELECTRONICS CORPORATION) | |
| A | US 5153722 (GOEDEKE et al) | |
| A | US 5625342 (HALL et al) | |
| A | US 4553031 (CHOLIN et al) | |

X Document indicating lack of novelty or inventive step
 Y Document indicating lack of inventive step if combined with one or more other documents of same category.
 & Member of the same patent family

A Document indicating technological background and/or state of the art
 P Document published on or after the declared priority date but before the filing date of this invention.
 E Patent document published on or after, but with priority date earlier than, the filing date of this application.

An Executive Agency of the Department of Trade and Industry



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Your ref: MNH
Application No: GB 0103632.6
Applicant: Infrared Integrated Systems Ltd
Latest date for reply: 28 May 2002

Examiner: Brian Hughes
Tel: 01633 814535
Date of report: 27 November 2001
Page 1/1

Patents Act 1977
Combined Search and Examination Report under Sections 17 & 18(3)

Clarity section 14 (5(b))

There are two claims both numbered 15.